

**Dr. Imtiaz Ahmed Khan**  
**Senior Assistant Professor (Zoology)**  
**University of Kashmir**  
**Srinagar (J&K)**

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**Areas of Specialization:** Aquaculture, Fish Nutrition, Limnology and Fish Physiology

**Qualification:** M.Sc. Zoology (Specialization in Fishery Science & Aquaculture)  
M. Phil. & Ph. D. Fish Nutrition (Protein, amino acids and nutrient requirements of fishes)

**Awards :** **Conferred Archana Gold Medal 2017 by Academy of Environmental Biology, Lucknow**  
**Awarded DST-Fast Track Young Scientist Project by the Department of Science and Technology, Govt of India, New Delhi in the area of Fish Nutrition and diet development**

**Citations:** More than **565 Citations (h-index = 15; i10-index = 14)** in International reputed Journals in the field of Fishery Science and Aquaculture. These Citations have been cited under various publishers like 'Elsevier Science, Wiley-Blackwell-Science, Cambridge Publisher UK, Springer International and Kluwer, Academic Publishers etc.

**Research Publications:** **International 31**      **National: 07**      **Cumulative Impact factor: 32.50**  
**Seminar/Conference attended:** **International: 03**      **National: 07**      **Regional: 06**

**Referee:** British Journal of Nutrition (Cambridge Publisher UK)  
Aquaculture Research USA (Black-well Science)  
Aquaculture Nutrition (Black-well Science)  
Journal of World Aquaculture Society (Black-well Science)  
International Food Research Journal  
Iranian Journal of Fisheries Sciences  
African Journal of Food Science  
African Journal of Biotechnology  
African Journal of Agricultural Research  
The Open Fish Science Journal

**Member:** Life member 'Academy of Environmental Biology' Lucknow  
Life member 'The Indian Science Congress Association' Kolkata  
Life member 'Inland Fisheries Society of India' Barrackpore, Kolkata  
Life member 'National Environmental Science Academy' New Delhi

**Associate Editor:** International Journal of Fisheries and Aquatic Studies  
Fisheries and Aquaculture Journal-USA

**Editorial member:** 'International Journal of Oceanography & Aquaculture ' (IJOAC)'

**Research scholars**  
**Under supervision:**      I.Ph.D 05      Ph. D 01

**Research scholars**  
**Supervised:**      M. Phil. 05      Ph.D 01

**Administrative position:** **Proctor (proctorial organization) University of Kashmir from August 2013 till date**  
**Seminar/Conference/** **Organized National symposium on 'Himalayan Biodiversity Characterization**  
**Workshop Organized:** **and bioprospection for sustainable utilization' held on September 18 & 19th, 2017**  
**as Organizing Secretary**

## Major Project Completed:

Sr. No.	Title	Agency	Period	Grant / Amount Mobilized (Rs. lakhs)
1.	Dietary essential amino acids requirement, optimum feeding rate and n-6 and n-3 fatty acids requirement of Indian catfish <i>Heteropneustes fossilis</i> with a view to develop nutritionally balanced feeds for its intensive culture.	Department of Science & Technology, Govt. of India, New Delhi	3 Years	17

## Ongoing Projects:

01.	Optimum feeding rate, dietary protein and essential amino acids requirement of rainbow trout, <i>Oncorhynchus mykiss</i> (Walbaum 1792) with a view to develop nutritionally balanced feeds for intensive culture in J&K'	Department of Biotechnology Govt. of India, New Delhi	3 Years	45.22
02.	Documentation of animal biodiversity with special reference to chemical and molecular characterization of economically important endemic and exotic food fish species of Kashmir Himalayas. Under UGC-sponsored programme 'Centre for Kashmir Himalayan Biodiversity-Documentation, bio-prospection & Conservation' Representing Zoology part as PI	UGG, New Delhi, Centers with Potential of Excellence in Particular Areas (CPEPA) Scheme	5 Years	525

## Details of Innovation/ significant contributions in Teaching and Research

**Dr. Imtiaz Ahmed Khan** is a faculty member working at Department of Zoology, University of Kashmir. He have been actively involved in teaching at PG level in Zoology in general and Ichthyology in particular to Post Graduate students. As a part of his research guidance initiatives he has supervised the research work of various M/Phil and Doctoral students in the area of Fish Nutrition, Physiology Reproductive Biology and Limnology. Many of his students have already been awarded research degrees and others are at various stages of completion of their degree programs. He have reoriented the syllabus related to Ichthyology at PG level and introduced Fish Nutrition, Feed Technology and Feed formulation techniques and been conducting regular on-farm demonstrations of various techniques for PG/research students by visiting various fish hatcheries run by State Fisheries Department.

His pioneer contribution in the field of research is determination of complete essential amino acids requirements of Indian Major Carp, *Cirrhinus mrigala* at fingerling stage as a part of his doctoral thesis and essential amino acid requirements of *H. fossilis* at fingerling stage as a part of research project. Key finding of his research projects have been submitted to the Ministry of Agriculture for proper implications through DST- New Delhi. Feeding regime/appropriate ration size of some important cultured fish species have been determined and recommended for the proper utilization of feed. The protein requirement of two cultured fish species inhabiting Kashmir water bodies i.e., Common Carp, *Cyprinus carpio communis* and *Cyprinus carpio specularis* were reported by him first from Kashmir.

Apart from protein and amino acids requirements studies, he has also established quantitative information on vitamin requirement of different cultured fish species. He was the first to determine feeding regime and protein and energy maintenance requirement of rainbow Trout, *O. mykiss* from Kashmir water in lab conditions. He has also established nutritional value of indigenous Snow Trout *Schizothorax* of Kashmir and the seasonal variation in hematio-biochemical composition of fishes from Kashmir valley. Most of his research work has been published in high rated and prestigious Peer-reviewed International Journals. To conduct research in his specialized areas, he has also established fish feeding trial laboratory with continuous flow through system. Presently he is also actively involved in extending his expert services to State Fisheries Department's Koker Nag, Manasbal and Laribal Fish Hatcheries in various areas of fish nutrition. Presently he is also working in fish proteomic analysis and establishes some interesting information about the role of specific protein in the behavior of cold water fish species of Kashmir region.

## Details of Participation in Corporate Life:

S.No.	Post	Duration	Place
1.	University Proctor ( <b>Proctorial Organization</b> )	August 2013 till date	University of Kashmir
2.	Member University Residential Committee	2010 till date	University of Kashmir

## Fellowship/Scholarship:

S.No.	Post	Duration	Place
1.	University Research Fellowship	03-09-2002-02-09-2004	AMU., Aligarh

**Invited lecturers:**

Delivered invited lecture on 'Effect of partial replacement of fish meal with aquatic weeds on growth, feed conversion ratio and biochemical composition of common carp, *Cyprinus carpio communis* fingerlings' Participated in **National Symposium on Biodiversity and Nutritional Resources for Sustainable Development and 37<sup>th</sup> Annual Session of Academy of Environmental Biology, Lucknow:** Organized by Department of Zoology, Chaudhary Charan Singh University, Merrut in collaboration with Academy of Environmental Biology and DRDO, New Delhi. **November 24<sup>th</sup> – 26<sup>th</sup>, 2017.**

**Certificate of Achievement:**

- 2008** Certificate for attending CAS training programme on 'Recent Advances in Aquaculture Technologies' at Central institute of Fisheries Education, Versova Mumbai.
- 2011** Certificate for participation in 4 week UGC sponsored 56<sup>th</sup> General Orientation Course, Academic Staff College, University of Kashmir.
- 2014** Certificate for participation in 3 week UGC Summer School Refresher Course (ID), Academic Staff College, University of Kashmir.

## List of Publications

(Excluding communicated /under consideration papers)

### International

#### Single Author

1. **Ahmed, I.** **2017** Effects of dietary amino acid L-lysine on survival, growth and haemato-biochemical parameters in Indian catfish, *Heteropneustes fossilis* (Bloch-1974) fingerling. **Journal of Applied Ichthyology**, **33:1027-1033**. Wiley Blackwell Verlag GmbH, Germany. **ISSN 1439-0426. Impact factor 0.869.** DOI: 10.1111/jai.13355
2. **Ahmed, I.** **2014** Dietary amino acid L-methionine requirement of fingerling Indian catfish, *Heteropneustes fossilis* (Bloch-1974) estimated by growth & haemato-biochemical parameters. **Aquaculture Research**, **45: 243-258** (Wiley-Blackwell, England), **ISSN 1365-2109. Impact factor 1.606.**
3. **Ahmed, I.** **2013** Dietary arginine requirement of fingerling Indian catfish (*Heteropneustes fossilis*, Bloch). **Aquaculture International**, **21: 255-271** (Springer Netherland). **ISSN 0967-6120. Impact factor 1.095.**
4. **Ahmed, I.** **2013** Dietary amino acid L-histidine requirement of fingerling Indian catfish, *Heteropneustes fossilis* (Bloch), estimated by growth and whole body protein and fat composition. **Journal of Applied Ichthyology**, **29: 602-609**. Wiley Blackwell Verlag GmbH, Germany. **ISSN 1439-0426. Impact factor 1.095.**
5. **Ahmed, I.** **2012** Dietary amino acid L-tryptophan requirement of fingerling Indian catfish, *Heteropneustes fossilis* (Bloch) estimated by growth and haemato-biochemical parameters. **Fish Physiology & Biochemistry** **38:1195–1209** (Springer Publisher Netherland). **ISSN: 0920-1742. Impact factor 1.647.**
6. **Ahmed, I.** **2011** Effect of dietary niacin on growth and body composition of two Indian major carps rohu, *Labeo rohita*, and mrigal, *Cirrhinus mrigala*. (Hamilton), fingerlings based on dose–response study. **Aquaculture International**, **19: 567-584**. (Springer Publisher Netherland). **ISSN: 0967-6120. Impact factor 1.095.**
7. **Ahmed, I.** **2010** Effect of ration levels on growth, body composition, energy and protein maintenance requirement of Indian catfish, singhi *Heteropneustes fossilis* (Bloch). **Fish Physiology & Biochemistry** **36: 1133-1143**. (Springer Publisher Netherland). **ISSN: 0920-1742. Impact factor 1.647.**
8. **Ahmed, I.** **2009** Dietary total aromatic amino acid requirement and tyrosine replacement value for phenylalanine in Indian major carp, *Cirrhinus mrigala* (Hamilton) fingerling. **Journal of Applied Ichthyology** **25:719-727**. Wiley Blackwell Verlag GmbH, Germany. **ISSN 1439-0426. Impact factor 0.869.**
9. **Ahmed, I.** **2007** Effect of ration levels on growth, body composition, energy and protein maintenance requirement of fingerlings Indian major carp, *Labeo rohita* (Hamilton). **Fish Physiology & Biochemistry**, **33: 203-212**. (Springer Publisher Netherland). **ISSN: 0920-1742. Impact factor 1.647.**

10. **Ahmed, I.** 2007 Dietary amino acid L-threonine requirement of fingerling Indian catfish, *Heteropneusts fossilis* (Bloch) estimated by growth and biochemical parameters. **Aquaculture International**, 15: 337-350. (Springer Publisher Netherland). ISSN 0967-6120 **Impact factor 1.095.**

### Joint Author

11. *Eur. J. Entomol.* **115**: 332–338, 2018 **2018** Dinocampus coccinellae (Hymenoptera: Braconidae) utilizes both Coccinellini and Chilocorini (Coleoptera: Coccinellidae: Coccinellinae) as hosts in Kashmir Himalayas. *European Journal of Entomology*, **115**: 332–338, 2018, **ISSN: 1802-8829. Impact Factor 1.06.**
12. **Ahmed, I.** Ahmad, Z. & Ahmad, I. **2017** Current status of fish fauna of river Jhelum and Dal lake of Kashmir valley. **Bulletin of Pure and Applied Sciences**, **36A: 85-92.** (bpaspublication) **ISSN: 0970-0765.**
13. **Ahmed, I. &** Maqbool, A. **2017** Effects of dietary protein levels on the growth, feed utilization and haemato-biochemical parameters of freshwater fish, *Cyprinus carpio* var. specularis. **Fisheries & Aquaculture Journal**, **8:1-12** (Osmic International). **ISSN: 2150-3508. Impact Factor 0.50.**
14. **Ahmed, I. &** Sheikh, Z. A **2017** Study on the seasonal variation in the chemical composition, hematological profile and hepato-somatic indices of snow trout, *Schizothorax niger* from the freshwater Dal lake, Kashmir, India. **American Journal of Food Technology**, **12:1-13.** (Academic Journals Inc.). **ISSN: 1557-4571. Impact Factor 0.75.**
15. Sheikh, Z. A. & **Ahmed I.** **2016** Seasonal changes in hematological parameters of snow trout *Schizothorax plagiostomus* (Heckel 1838). **International Journal of Fauna & Biological Studies**, **3:33-38.** Akinik Publications New Delhi. **ISSN: 2347-2677.**
16. Jan, M. & **Ahmed, I.** **2016** Length weight relationship and condition factor of snow trout, *Schizothorax plagiostomus* (Heckel, 1838) from Lidder River, Kashmir. **International Journal of Fisheries & Aquatic Studies**, **4:131-136.** Akinik Publications New Delhi, **ISSN 2347-5129. (ICV-Poland) Impact Value: 5.62; NASS rating 3.99.**
17. Jan, M. & **Ahmed, I.** **2016** Assessment of fecundity, gonadosomatic index and hepatosomatic index of snow trout, *Schizothorax plagiostomus* in river Lidder, from Kashmir Himalaya, India. **International Journal of Fisheries & Aquatic Studies**, **4:370-375.** Akinik Publications New Delhi, **ISSN 2347-5129 (ICV-Poland) Impact Value: 5.62; NASS rating 3.99.**
18. Maqbool, A. & **Ahmed, I.** **2014** Hematological response of snow barbell, *Schizothorax plagiostomus* Heckel, naturally infected with a new Trypanosoma species. **Journal of Parasitic Diseases**, **2:1-10** (Springer). **ISSN 0971-7196.**
19. Maqbool, A. **Ahmed, I. &** Sheikh, Z. A. **2014** Effects of two commonly used anticoagulants on hematology and erythrocyte morphology of rainbow trout (*Oncorhynchus mykiss*). **International Journal of Fisheries & Aquatic Studies**, **2:239-243.** Akinik Publications New Delhi, **ISSN: 2347-5129. (ICV-Poland) Impact Value: 5.62; NASS rating 3.99.**

20. Maqbool, A. & Ahmed, I. 2013 Effects of pesticide monocrotophos (Organophosphate), on the gonadal development of female freshwater murrel, *Channa punctatus* (Bloch). **International Journal of Recent Scientific Research** 4:1454-1458. The Official Publication of IJRSR, Netherland. ISSN: 0976-3031.
21. Bakhtiyar Y., Langer S., Karlopiya S.K. & Ahmed, I. 2011 Growth, survival and proximate body composition of *Labeo rohita* larvae fed artificial food and natural food organisms under laboratory condition. **International Journal of Fisheries & Aquaculture** 3: 113-116. Academic Journal. ISSN: 2006-9839.
22. Ahmed, I. & Khan, M. A 2006 Dietary branched-chain amino acid valine, isoleucine and leucine requirements of fingerling Indian major carp, *Cirrhinus mrigala* (Hamilton). **British Journal of Nutrition**, 96: 450-460. (Cambridge Publisher UK), England. ISSN: 0007-1145. Impact factor 3.706.
23. Ahmed, I. & Khan, M. A 2005 Dietary tryptophan requirement of fingerling Indian major carp, *Cirrhinus mrigala* (Hamilton). **Aquaculture Research**, 36: 687-695. (Wiley-Blackwell, England), ISSN: 1365-2109. Impact factor 1.606.
24. Ahmed, I. & Khan, M. A 2005 Dietary histidine requirement of fingerling Indian major carp, *Cirrhinus mrigala* (Hamilton). **Aquaculture Nutrition**, 11: 359-366. Wiley-Blackwell, England. ISSN:1365-2095. Impact factor 2.179.
25. Ahmed, I. & Khan, M. A 2004 Dietary lysine requirement of fingerling Indian major carp, *Cirrhinus mrigala* (Hamilton). **Aquaculture**, 235: 499-511. Elsevier Science B.V. Netherlands. ISSN 0044-8486. Impact factor 2.570.
26. Ahmed, I. & Khan, M. A 2004 Dietary arginine requirement of fingerling Indian major carp, *Cirrhinus mrigala* (Hamilton). **Aquaculture Nutrition**, 10: 217-225. Wiley-Blackwell, England. ISSN:1365-2095. Impact factor 2.179.
27. Ahmed, I. Khan, M.A. & Jafri, A. K. 2004 Dietary threonine requirement of fingerling Indian major carp, *Cirrhinus mrigala* (Hamilton). **Aquaculture Research**, 35: 162-170. (Wiley-Blackwell, England), ISSN: 1365-2109. Impact factor 1.606.
28. Khan, M.A., Ahmed, I. & Abidi, S.F. 2004 Effect of ration size on growth, conversion efficiency and body composition of fingerling mrigal, *Cirrhinus mrigala* (Hamilton). **Aquaculture Nutrition**, 10: 47-53. Wiley-Blackwell, England. ISSN:1365-2095. Impact factor 2.179.
29. Abidi, S.F., Khan, M.A., Firdaus, S., Ahmed, I. & Singh, S. Nutritional richness of locally available feed ingredients for developing fish feeds. **Journal of Aquaculture in the Tropics**, 19: 93-102. (Oxford & IBH Publishers), Philippines. ISSN: 0970-0846.
30. Ahmed, I. Khan, M.A. & Jafri, A. K. 2003 Dietary methionine requirement of fingerling Indian major carp, *Cirrhinus mrigala* (Hamilton). **Aquaculture International**, 11: 449-462. (Springer Publisher Netherland). ISSN 0967-6120 Impact factor 1.095.

31. Abidi, S.F., **Ahmed, I.** & Khan, M. A. **2002** Dietary phenylealanine requirement of Indian major carp, *Labeo rohita* fry (Hamilton). Proceedings of 4th International Conference on recirculating aquaculture. Food Science and Technology Department, **Virginia, USA.**
32. Khan, M.A., **Ahmed, I.**, Firdaus, S. & Jafri, A.K. **2001** Dietary threonine requirement of young catfish, *Heteropneustes fossilis* Bloch. Proceedings of the International Symposium on fish for nutritional security in the 21st century, CIFE, Mumbai, India, 4-6 December, 2001.

### **National**

33. Jan, M., Jan, N. & **Ahmed, I** **2018** Food and feeding habits of snow trout, *Schizothorax plagiostomus* in river Lidder, from Kashmir Himalaya. Bulletin of Pure & Applied Science, 37A: 1-10. **ISSN:0970-0765.**
34. **Ahmed, I.**, Tali, A. I. & Sheikh, Z.A. **2017** Current status of fish fauna of River Jhelum & Dal lake of Kashmir valley. Bulletin of Pure & Applied Science, 36A: 85-92. **ISSN:0970-0765.**
35. **Ahmed, I.** **2016** Length weight relationship and condition factor of freshwater snow trout, *Schizothorax niger* (Heckel 1838) from Dal lake of Kashmir Himalayas. **Journal of Ecophysiology & Occupational Health, 16: 22-26.** The Academy of Environmental Biology, Lucknow (India). **ISSN: 0972- 4397.**
36. Bakhtiyar, Y., **Ahmed, I.** & Langer, S. **2015** Feeding Habits of Decapod Crustaceans: A Mini Review. **Journal of Research & Development, 15: 110-116.** **ISSN 0972-5407.**
37. **Ahmed, I.** & Maqbool, A. **2014** Effects of Sodium-Heparin and Dipotassium EDTA on the Haematological Parameters and Blood Cell Morphology of Freshwater Fish *Schizothorax labiatus* (McClelland, 1842). **Journal of Ecophysiology & Occupational Health, 14: 117 - 122.** The Academy of Environmental Biology, Lucknow (India). **ISSN: 0972- 4397.**
38. Jan, M., Jan, N. & **Ahmed, I.** **2014** Studies on the reproductive biology of an endangered coldwater fish golden mahseer, *Tor putitora* (Ham) from Anji Mahseer Hatchery Reasi of Jammu region. **International Journal of Current Research, 6: 6710-6713.** **ISSN: 0975- 833X.**
39. Seema Langer, Yahya Bakhtiyar, S.K.Karlovia and **Ahmed, I.** **2009** Studies on the optimum dietary protein requirement of *Macrobrachium dayanum* (herndersen) larvae. 24: 142-147. **Journal of Aquatic Biology. Andhra Pradesh ISSN: 09711-4235.**
40. Maqbool, A & **Ahmed, I.** **2015** **Book Chapter** Effects of Sodium-Heparin & Di-potassium EDTA on the hematological parameters & blood cells morphology of freshwater snow trout, *Schizothorax plagiostomus* Heckel. In: **Fisheries and Aquaculture** (ed. By. Gupta, N. & Gupta, D.K.), 124-134pp. ISBN: 978-93-5056-736-4. Discovery Publishing House PVT. LTD.

## Abstract in conferences

- Blood biochemistry of snow trout *Schizothorax plagiostomus* in relation to different sexes collected from river Jhelum. Abstract no116, page 85. **National Seminar on Environmental pollution**: Join the race to make the world a better place. Organised by Department of Environmental Science & CORD in collaboration with Dean College Development Council University of Kashmir. June 4<sup>th</sup>- 6<sup>th</sup>, 2016.
- Haemoparasites of the genus *Trypanosoma* (Kinetoplastida: Trypanosomatidae) and their impact on the hematological profiles of *Schizothorax* species from Kashmir Himalayas'. Abstract no113, page 83. **National Seminar on Environmental Pollution**: Join the race to make the world a better place. Organised by Department of Environmental Science & CORD in collaboration with Dean College Development Council University of Kashmir. June 4<sup>th</sup>- 6<sup>th</sup>, 2016.
- Effects of dietary amino acid L-lysine on survival, growth and haemato-biochemical parameters in Indian catfish, *Heteropneustes fossilis* (Bloch-1974) fingerling". Zoo-61, page 147. **11th JK Science Congress**. Organised by University of KU in collaboration with J&K State Council for Science & Technology & DST, GOI. October 12 - 14<sup>th</sup>, 2015.
- Morphological characterization, including development in a Leech vector and pathogenicity of a new Piscine *Trypanosoma* species (*Trypanosoma maqbooli* N.Sp.) infecting chirruh snow barbell, *Schizothorax esocinus* (Heckel, 1838) from river Jhelum in Kashmir Himalayas. Zoo-50, page 141. **11th JK Science Congress**. Organised by University of KU in collaboration with J&K State Council for Science & Technology & DST, GOI. October 12 - 14<sup>th</sup>, 2015.
- Assessment of fecundity, gonadosomatic index and hepatosomatic index of snow trout, *Schizothorax plagiostomus* in River Lidder, from Kashmir Himalaya. Zoo-72, page 154. **11th JK Science Congress**. Organised by University of KU in collaboration with J&K State Council for Science & Technology & DST, GOI. October 12 – 14<sup>th</sup>, 2015.
- Studies on the hematological parameters of snow trout, *Schizothorax plagiostomus* with related to the Sex. Zoo-83, page 160. **11th JK Science Congress**. Organised by University of KU in collaboration with J&K State Council for Science & Technology & DST, GOI. October 12 - 14<sup>th</sup>, 2015.
- Effect of ration levels on growth, body composition, energy and protein maintenance requirement of rainbow trout, *Oncorhynchus mykiss*. Zoo-59, page 99. **9th J&K Science Congress, and Regional Science Congress**. Organised by University of KU in collaboration with J&K State Council for Science & Technology & DST, GOI. October 1<sup>st</sup> - 3<sup>rd</sup>, 2013.
- Studies of the reproductive biology of an endangered coldwater fish golden mahseer, *Tor putitora* (Ham.) from Anji mahseer hatchery Reasi of Jammu region. Zoo-60, page 99. **9th J&K Science Congress, and Regional Science Congress**. Organized by University of KU in collaboration with J&K State Council for Science & Technology & DST, GOI. 1<sup>st</sup> - 3<sup>rd</sup>, 2013.
- Studies on the seasonal variation in the hematological parameters of Snow trout, *Schizothorax niger*. Zoo-61, page 100. **9th J&K Science Congress, and Regional Science Congress**. Organized by University of KU in collaboration with J&K State Council for Science & Technology & DST, GOI. 1<sup>st</sup> - 3<sup>rd</sup>, 2013.
- Dietary amino acid L-phenylalanine requirement of fingerling Indian catfish, *Heteropneustes fossilis* (Bloch) estimated by growth and haemato-biochemical parameters. Page 97. **National conference on Status and Conservation of Biodiversity in India with special reference to Himalaya**. Organised by Centre of Research for Development and Department of Environmental Science University of Kashmir in collaboration with Indian Academy of Environmental Science, Haridwar-249408. October 4<sup>th</sup> -5<sup>th</sup>, 2013.
- Studies on the monthly variations in hematological profile of snow trout *Schizothorax niger* (Heckel 1838). Page 104. **National Seminar on Science for shaping the future of India: faunal Diversity Challenges and opportunites**. Organised by Department of Zoology, University of Kashmir in collaboration with UGC, New Delhi. November 19<sup>th</sup> - 21<sup>st</sup>, 2012.
- Studies on the moisture and fat distribution patterns in the body of two selected commercially important food fishes *Cyprinus carpio communis* and *Cyprinus carpio specularis*. **National Seminar on Science for shaping the future of India: faunal Diversity Challenges and opportunites**. Page 148. Organised by Department of Zoology, University of Kashmir in collaboration with UGC, New Delhi. November 19<sup>th</sup> - 21<sup>st</sup>, 2012.
- Preliminary studies on water and protein distribution patterns in the muscles of the three selected commercially important food fishes of the valley. Zoo/oral-101, page 102, **8th J&K Science Congress**. Organized by University of KU in collaboration with J&K State Council for Science & Technology & DST, GOI. September 17<sup>th</sup> - 19<sup>th</sup>, 2012.



- Effects of dietary  $\alpha$ -linolenic acid (18:3n-3)/linoleic acid (18:2n-6) ratio of Indian catfish, *Heteropneustes fossilis* (Bloch-1974) estimated by growth and biochemical parameters. Zoo/oral-111, page 102. **8th J&K Science Congress**. Organized by University of KU in collaboration with J&K State Council for Science & Technology & DST, GOI. Sept.ember 17<sup>th</sup> - 19<sup>th</sup>, 2012.
- Effects of pesticide monocrotophos (organophosphate), on the gonadal development of female freshwater murrel, *Channa punctatus* (Bloch). Zoo/orl-121, page 103. **8th J&K Science Congress**. Organized by University of KU in collaboration with J&K State Council for Science & Technology & DST, GOI. Sept.ember 17<sup>th</sup> - 19<sup>th</sup>, 2012.
- Preliminary studies on water and fat distribution patterns in the flesh of the three selected commercially important food fishes of the valley. Zo-36, Page 186. **6th J&K Science Congress**. Organized by University of KU in collaboration with State Council for Science & Technology & DST, GOI. December 2<sup>nd</sup> - 4<sup>th</sup>, 2010.
- Studies on the seasonal variations in the proximate body composition among sexes of *M. dayanum* (Henderson, 1893). Zo-36, Page 186-187. **6th J&K Science Congress**. Organized by University of KU in collaboration with State Council for Science & Technology & DST, GOI. December 2<sup>nd</sup> - 4<sup>th</sup>, 2010.
- Studies on the food preference of *Macrobranchium dayanum* and *Labeo rohita* under laboratory condition. Zo-11, Page 17. **6th J&K Science Congress**. Organized by University of KU in collaboration with State Council for Science & Technology & DST, GOI. December 2<sup>nd</sup> - 4<sup>th</sup>, 2010.
- A preliminary study on the effect of ration level on growth, body composition, and energy and protein maintenance requirement of fingerling Indian major carp, *Catla catla* (Hamilton) page 220, **4th J&K Science Congress**. Organized by University of KU in collaboration with State Council for Science & Technology & DST, GOI. November 12<sup>th</sup> – 14<sup>th</sup>, 2008.

### **Workshop/Conference attended**

- Participated in Brain Storming Session on Fish Reproduction Biotechnology: Current Status and Future Prospects on **6th-7th April, 2018** held at Visva Bharati University, Santiniketan.
- Participated in **National Symposium on Biodiversity and Nutritional Resources for Sustainable Development and 37<sup>th</sup> Annual Session of Academy of Environmental Biology, Lucknow**: Organized by Department of Zoology, Chaudhary Charan Singh University, Merrut in collaboration with Academy of Environmental Biology and DRDO, New Delhi. **November 24<sup>th</sup> – 26<sup>th</sup>, 2017**.
- Participated in **National Seminar on Environmental Pollution: Join the race to make the world a better place**. Organised by Department of Environmental Science & CORD in collaboration with Dean College Development Council University of Kashmir. **June 4th- 6th, 2016**.
- Participated in **11<sup>th</sup> J&K Science Congress, and Regional Science Congress**, Organized by University of KU in collaboration with J&K State Council for Science & Technology & DST, GOI. **October October 12 - 14th, 2015**.
- Participated in **9<sup>th</sup> J&K Science Congress, and Regional Science Congress**, Organized by University of KU in collaboration with J&K State Council for Science & Technology & DST, GOI. **October 1<sup>st</sup> - 3<sup>rd</sup>, 2013**.
- Participated in **National Seminar on Science for shaping the future of India: faunal Diversity Challenges and opportunities**. Organised by Department of Zoology, University of Kashmir. **November 19<sup>th</sup> – 21<sup>st</sup>, 2012**.
- Participated in **8<sup>th</sup> J&K Science Congress**, Organized by University of KU in collaboration with J&K State Council for Science & Technology & DST, GOI. **September 17<sup>th</sup> - 19<sup>th</sup>, 2012**.
- Participated in **7<sup>th</sup> J&K Science Congress**, Organized by University of Jammu in collaboration with J&K State Council for Science & Technology & DST, GOI. **October 13<sup>th</sup> - 15<sup>th</sup>, 2011**.
- Participated in **6<sup>th</sup> J&K Science Congress**, Organized by University of KU in collaboration with State Council for Science & Technology & DST, GOI. **December 2<sup>nd</sup> – 4<sup>th</sup>, 2010**.
- Participated in three days **Group Monitoring Workshop** organized by Department of Science and Technology, Govt. of India, New Delhi held on **8-10<sup>th</sup> April, 2010** at Department of Zoology, University of Jammu, Jammu.
- Participated in Five Day National Workshop on '**Frontiers of Spectroscopic and Analytical Techniques in Chemical Sciences**' organized by the P.G. Department of Chemistry, University of Kashmir in collaboration with Indian Institute of Integrative Medicine (IIIM), Srinagar, held on **March 21<sup>st</sup> - 25<sup>th</sup>, 2009**.
- Participated in **4<sup>th</sup> J&K Science Congress**, Organized by University of KU in collaboration with State Council for Science & Technology & DST, GOI. **November 12<sup>th</sup> – 14<sup>th</sup>, 2008**.

- Participated in One Day Workshop on '**Advanced Computing for Statistics and Optimization for Young Statisticians and Scientists Using Softwares**' organized by the P.G. Department of Statistic, University of Kashmir in collaboration with held on **October 22<sup>nd</sup>, 2008**.
- Participated in training programme on '**Recent Advances in Aquaculture Technologies**' held on **January 8<sup>th</sup> – 28<sup>th</sup>, 2008** at **Central institute of Fisheries Education, Versova Mumbai-2008**.
- Participated in '**International Symposium on Genomics instability and Cancer-2007**, organized by the **P. G. department of Bio-Technology in Collaboration with Ohio State University, USA, from 22<sup>nd</sup> – 26<sup>th</sup> July, 2007**.
- Participated in workshop on '**Bioinformatics tools in biology research**' sponsored by the Department of Biotechnology, Ministry of Science and Technology, Govt. of India, New Delhi and organized at **Aligarh Muslim University Aligarh March 9<sup>th</sup> -10<sup>th</sup>, 2004**.
- Participated in '**International Symposium on Fish for Nutritional Security in the 21<sup>st</sup> Century**' **December 4<sup>th</sup> -6<sup>th</sup>, 2001** Mumbai, India.
- Participated in '**Bioinformatics Workshop on Information Retrieval through Internet for the study of protein structure and other Applications**'. Sponsored by the Department of Biotechnology, Ministry of Science and Technology, Govt. of India, New Delhi and organized at **Aligarh Muslim University Aligarh January 9<sup>th</sup> -11<sup>th</sup>, 2001**.

#### Thesis/Dissertation Evaluation:

S.No.	Title	Name of Scholar	Institute	Course	Dated
1.	Impact of some Environmental variables on Ichthyofauna of Dal lake Kashmir	<b>Ms. Joram Rupa</b>	SKUAST-K	MFSc	2015
2.	Post flood impact on the well-being of fishing community of District Srinagar	<b><u>Ms. V. V. Lakshmi</u></b>	SKUAST-K	MFSc	2017

#### Review of academic video document, Learning Object for Biomedical Course, University of Delhi, Organized by EMMRC, University of Kashmir, Srinagar:

- Human karyotype: Banding pattern and nomenclature (G and Q banding). Common syndromes due to numerical chromosome changes and Common syndromes due to structural alterations.
- Study of Model Systems in Developmental Genetics: *Drosophila melanogaster*, *Sahharomyces cerevisiae*, *Caenorhabditis elegans*, *Arabidopsis thaliana* and *Xenopus laevis*.
- Human Cytogenetic Technique: Fluorescence in-situ Hybridization (FISH).
- Common Chromosomal Abnormalities in Cancer.
- Molecular methods of assessing microbial phylogeny and molecular chronometer (28/02/2017).

#### Reviewed Research Manuscript as Referee for prestigious fisheries Journal:

- Use of isotopic enrichment to assess the relationship among dietary protein levels, growth and nitrogen retention in juvenile *Totoaba macdonaladi* by Curiel-Barreto and co-workers. **Aquaculture Nutrition**. Wiley-Blackwell, England. **ISSN:1365-2095. Impact factor 2.179. 08<sup>th</sup> March 2018**.
- Effect of dietary lipid on growth, survival, fatty acid profile and enzyme activity of the early juvenile (C1) swimming crab, *Portunus trituberculatus* by Han and co-workers. **Aquaculture Research**, (Wiley-Blackwell, England), ISSN: 1365-2109. **Impact factor 1.606. Jan 2018**
- Dietary geniposidic acid improved the flesh quality and the expression of collagen genes, but not the growth of grass carp (*Ctenopharyngodon idella*). by Sun and co-workers. **Aquaculture Nutrition**. Wiley-Blackwell, England. **ISSN:1365-2095. Impact factor 2.179. 15<sup>th</sup> June 2017**.
- Features of Sperm Motility and Circadian Rhythm in Japanese Anchovy (*Engraulis japonicus*). **Fisheries and Aquaculture Journal**. **ISSN: 2150-3508. Impact factor 0.86. May 16<sup>th</sup>, 2017**.
- Growth response of juveniles of rohu, *Labeo rohita* to different levels of lipid in the diet. **OMICS Publisher International UK. Fisheries and Aquaculture Journal. ISSN: 2150-3508. Impact factor 0.86. May 07, 2017**.

- Induced Breeding of fish *Clarias lazera* using Hormone of SGnRH $\alpha$ . Fisheries and Aquaculture Journal. OMICS Publisher International UK. **ISSN: 2150-3508. Impact factor 0.86. April 29, 2017.**
- Growth, survival and fatty acid profile of *Nereis diversicolor* farmed in wastewater of different densities *Huso huso* (Linnaeus, 1758) in the integrated culture system. **Iranian Journal of Fisheries Sciences. ISSN:1562-2916. Impact factor 0.572. April, 2017**
- Dietary niacin requirement of juvenile blunt snow trout bream *Megalobrama amblycephala* based on growth, body composition and plasma lipid profiles' by Li and co-workers. **Aquaculture Nutrition. Wiley-Blackwell, England. ISSN:1365-2095. Impact factor 2.179.June 2016.**
- Seasonal variation in the proximate body composition of *Macrobrachium dayanum* (Henderson) from Gho-Manhasa stream, Jammu, North India. **International Food Research Journal. ISSN:2231-7546. December 2015.**
- Effect of dietary arginine on growth, intestinal enzyme activities and gene expression in muscle, hepatopancreas and intestine of juvenile Jian carp (*Cyprinus carpio* var. Jian). **British Journal of Nutrition, (Cambridge Publisher UK), England. ISSN: 0007-1145. Impact factor 3.706. May 2011**
- Dietary niacin requirement of fingerling mrigal, *Cirrhinus mrigala* (Hamilton) based on growth, conversion efficiency, haematology and carcass composition'. **Aquaculture Research, (Wiley-Blackwell, England), ISSN: 1365-2109. Impact factor 1.606. May 2010.**
- Effects of ration level on growth, nitrogenous excretion and energy budget of juvenile yellow catfish, *Pelteobagrus fulvidraco* (Richardson). **Aquaculture Research, (Wiley-Blackwell, England), ISSN: 1365-2109. Impact factor 1.606. June 2010**
- Effects of ration level on growth, nitrogenous excretion, faecal production and energy budget of juvenile yellow catfish (*Pelteobagrus fulvidraco*). **Aquaculture Research, (Wiley-Blackwell, England), ISSN: 1365-2009. Impact factor 1.606. August 2009.**